

GENERAL NOTES

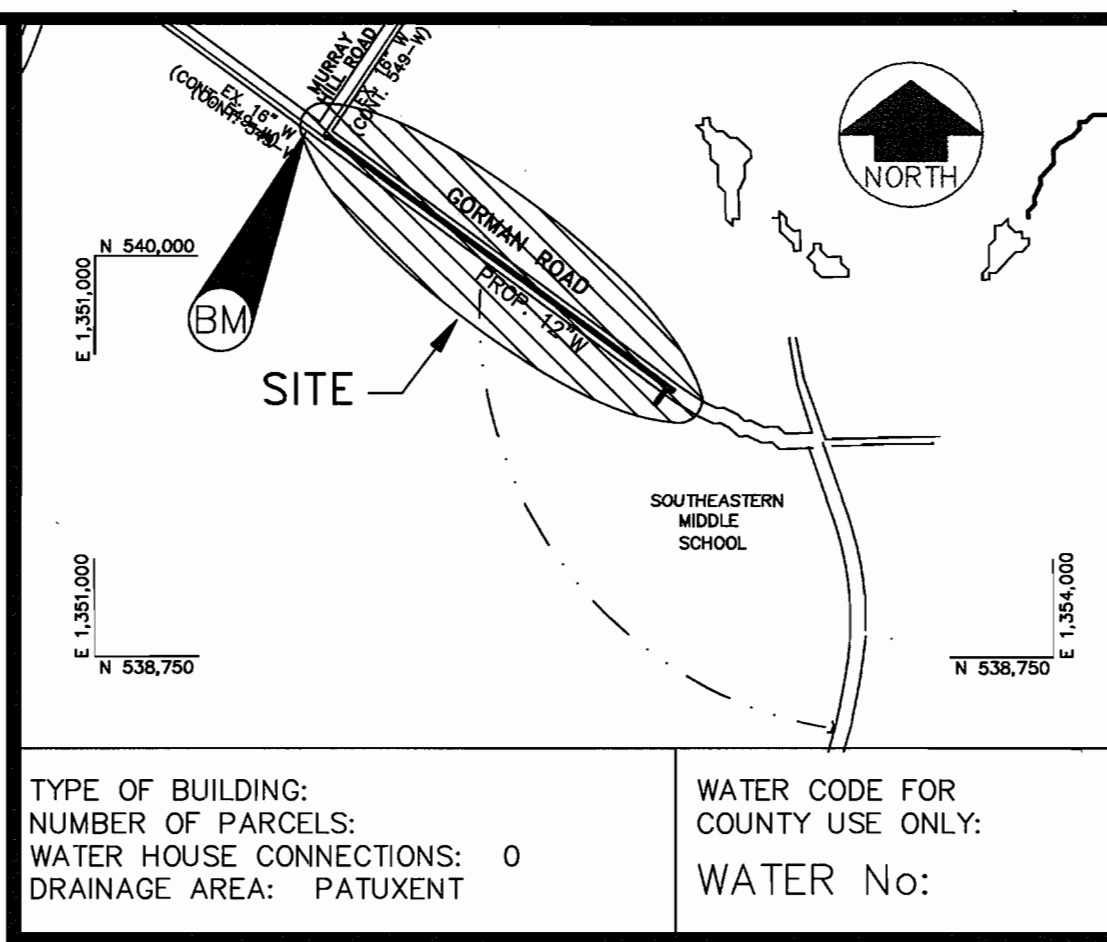
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 AT&T..... 865-3803
 BGE (CONTRACTOR SERVICES)..... 850-4620
 BGE - UNDERGROUND DAMAGE CONTROL..... 787-9068
 BUREAU OF UTILITIES (BPW)..... 313-4900
 CHESAPEAKE & POTOMAC TELEPHONE CO. 597-8585
 COLONIAL PIPELINE CO. 795-1390
 MISS UTILITY 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION 531-5533
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.

- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS, SECTION AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- PRIOR TO LAYING ANY WATER MAINS UNDER THIS CONTRACT, THE CONTRACTOR SHALL TEST PIT AT THE INDICATED CROSSINGS AND WATER MAIN CONNECTIONS, AND SHALL DETERMINE ELEVATIONS AND HORIZONTAL LOCATIONS OF MAINS. THE INFORMATION SHALL BE TURNED OVER TO THE ENGINEER AND THE CONTRACTOR SHALL LAY THE WATER MAINS IN ACCORDANCE WITH THE ENGINEER'S INSTRUCTIONS.
- CONTRACTOR SHALL VERIFY ELEVATION OF THE EXISTING WATER MAIN. CONTACT ENGINEER IF DIFFERENT ELEVATION SHOWN ON PLAN.

STAKEOUT COORDINATES SCHEDULE		
STRUCTURE	NORTHING	EASTING
0+00		
12" 1/8 H.B.	540,372.86	1,351,744.47
0+05.07		
12" 1/8 HB	540,374.60	1,351,751.51
0+07.88 PC	540,330.15	1,351,818.79
1+00	540,322.53	1,351,828.26
2+00	540,267.13	1,351,911.52
2+95.5		
12"x6" Tee	540,215.38	1,351,991.78
2+95.5 7' RT.		
6" V. & FH	540,209.51	1,351,987.96
3+00	540,212.97	1,351,995.58
3+20		
1" A.R.V.	540,203.25	1,352,014.12
3+78.87 PT	540,145.37	1,352,082.95
4+00	540,160.01	1,352,080.40
5+00	540,107.45	1,352,165.47
6+00	540,054.88	1,352,250.54
7+00	540,002.32	1,352,335.61
7+95.5		
12"x6" Tee	539,935.95	1,352,416.86
7+95.5 7' RT.		
6" V. & FH.	539,946.25	1,352,413.04
8+00	539,949.75	1,352,420.68
9+00	539,897.19	1,352,505.75
10+00	539,844.62	1,352,590.82
11+00	539,792.06	1,352,675.89
12+00	539,739.49	1,352,760.96
12+10.69 PC	539,733.87	1,352,769.53
12+30		
1" A.R.V.	539,723.76	1,352,786.51
12+95.5		
12"x6" Tee	539,689.98	1,352,842.63
12+95.5 7' RT.		
6" V. & FH.	539,684.12	1,352,838.81
13+00	539,687.69	1,352,846.50
13+25.38 PT	539,775.72	1,352,768.39
13+55		
12"x12" Tee	539,659.36	1,352,894.49
13+59 12" V	539,657.49	1,352,897.80
13+63		
LIMIT OF WORK		
4' STUB, 12" CAP & BUTTRESS	539,653.42	1,352,905.16
0+05		
12" VALVE	539,653.25	1,352,895.37
0+25.87		
Limit of Work	539,639.09	1,352,880.56

QUANTITIES				
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER
12" W	L.F.	1,390		
12" V	EA.	2		
F.H., 6" V & 6" W	EA.	3		
1" AIR RELEASE V. w/ MANHOLE (W 4.11)	EA.	2		
NAME OF UTILITY CONTRACTOR:				
CHECKBOX				
AS-BUILT DATE:				
SURVEY AND DRAFTING DIVISION				

RESTORATION SCHEDULE		
LOCATION	DISTANCE	TYPE
0+0 TO 13+64	1362 L.F.	MACADAM
12" WATER		
2+95.5 0' RT. TO 5' RT. 6x6 T	5 L.F.	MACADAM
2+95.5 5' RT. TO 7' RT. 6" V. & F.H.	2 L.F.	SEEDING
7+95.5 0' RT. TO 5' RT. 6x6 T	5 L.F.	MACADAM
7+95.5 5' RT. TO 7' RT. 6" V. & F.H.	2 L.F.	SEEDING
12+95.5 0' RT. TO 5' RT. 6x6 T	5 L.F.	MACADAM
12+95.5 5' RT. TO 7' RT. 6" V. & F.H.	2 L.F.	SEEDING
0+3.46 TO 0+25.76	22.3 L.F.	SEEDING
12" WATER		

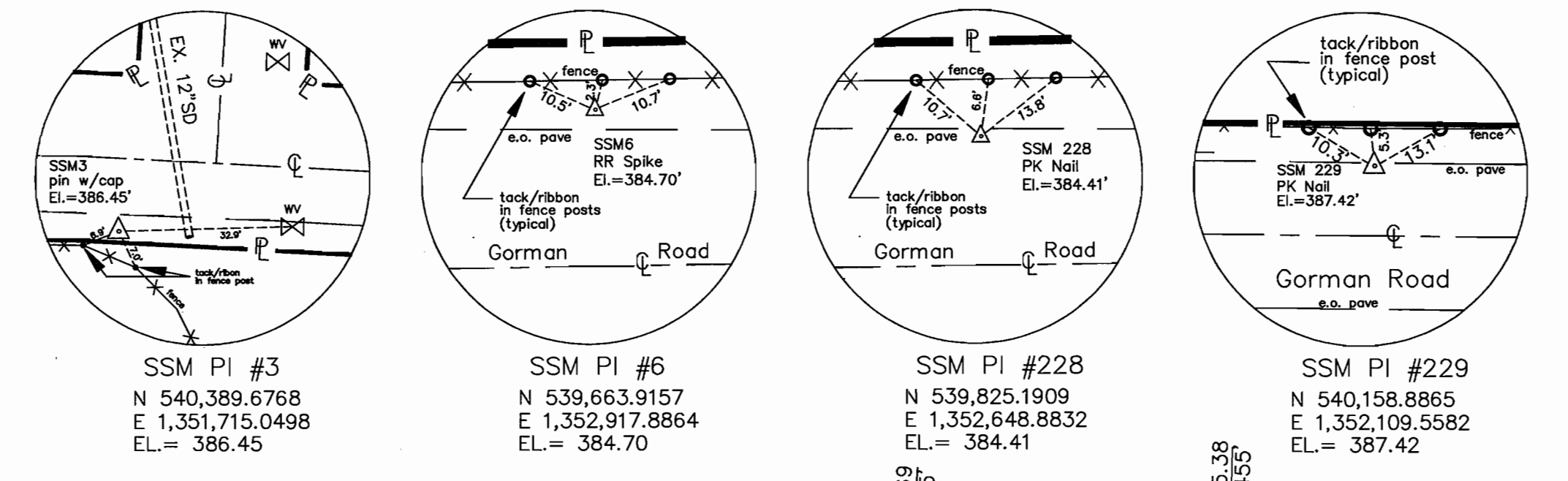


TYPE OF BUILDING: WATER HOUSE CONNECTIONS: 0 DRAINAGE AREA: PATUXENT WATER CODE FOR COUNTY USE ONLY: WATER No:

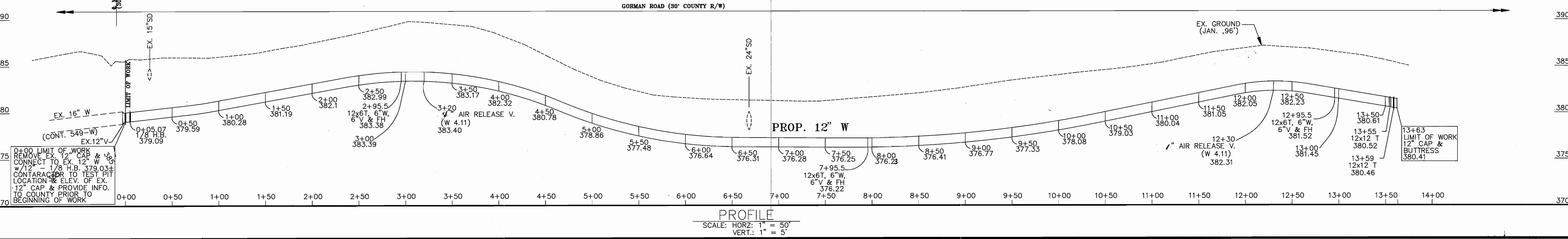
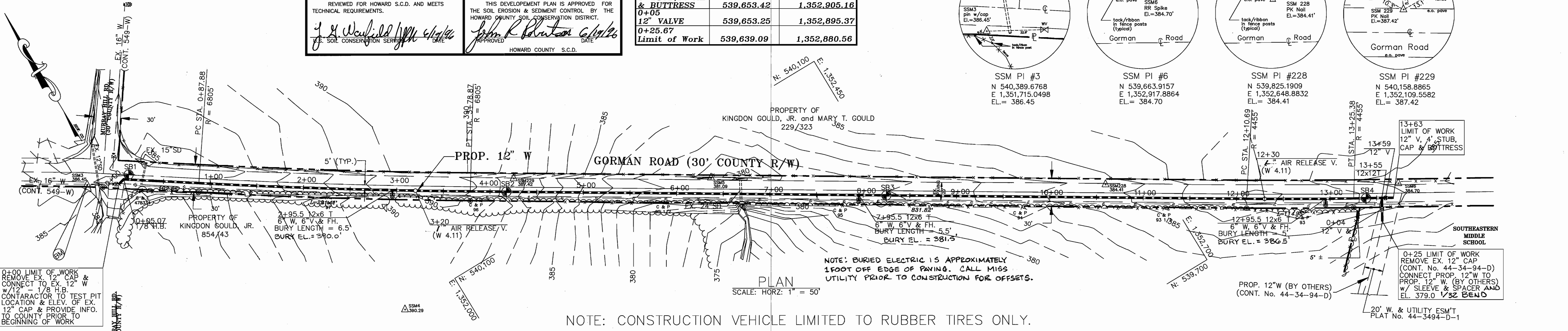
VICINITY MAP SCALE: 1" = 600'

SURVEY CONTROL

- HOWARD COUNTY STATION 42EA
 STD. HOWARD CO. SURVEY DISC SET ON CONC. MONUMENT ON THE NORTH SIDE OF GULLFORD RD. BETWEEN MURRY HILL RD. & RT.#32 OVERPASS.
 NORTH(83) 547,603.6748
 EAST (83) 1,355,440.3193
 ELEV. 312.586
- HOWARD COUNTY STATION 47AB
 STD. HOWARD CO. SURVEY DISC SET ON CONC. MONUMENT ON THE NORTH SIDE OF GORMAN RD. ±1000' S.E. OF LEISHEAR RD.
 NORTH(83) 540,058.257
 EAST (83) 1,350,005.064
 ELEV. 397.67
- BENCH MARK (BM)
 PIN w/ CAP "S.S.M.#3" SET ON THE S.W. COR. OF GORMAN & MURRY HILL ROADS.
 NORTH 540,389.677
 EAST 1,351,715.049
 ELEV. 386.45



DEVELOPER'S CERTIFICATION		ENGINEER'S CERTIFICATION	
"I/WE CERTIFY THAT ALL DEVELOPEMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."		"I/WE CERTIFY THAT ALL DEVELOPEMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."	
Reviewed for HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS. Signature: <i>John K. ...</i> Date: 6/17/96 TITLE: SOIL CONSERVATION SERVICE		THIS DEVELOPEMENT PLAN IS APPROVED FOR THE SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. Signature: <i>John K. ...</i> Date: 6/17/96 TITLE: HOWARD COUNTY S.C.D.	



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Signature: <i>John K. ...</i> Date: 6-17-96 TITLE: CHIEF, BUREAU OF UTILITIES		Signature: <i>Paul J. ...</i> Date: 6-17-96 TITLE: CHIEF, BUREAU OF ENGINEERING		Signature: <i>John K. ...</i> Date: 6-17-96 TITLE: CHIEF, WATER AND SEWER DESIGN DIVISION		SSM SPOTTS, STEVENS and McCOY, INC. ENGINEERS • SURVEYORS • SCIENTISTS 555 FARMOUNT AVENUE, SUITE 230 TOWSON, MARYLAND, 21286-5497 (410)494-0500 FAX (410)296-3580		DES: FCL DRN: AMIG CHK: TWW DATE: JUNE, '96		12-INCH WATER MAIN PLAN, PROFILE & NOTES GORMAN ROAD		GORMAN ROAD SCHOOL WATER CAPITAL PROJECT No. S-6204 CONTRACT No. 44-3515 ELECTION DISTRICT GULFORD No. 6 HOWARD COUNTY, MARYLAND		SCALE AS SHOWN SHEET 1 OF 2
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STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS, PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDER DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 - 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1981 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (Sec. 51), SOD(Sec. 52), TEMPORARY SEEDING (Sec. 50) AND MULCHING (Sec. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	NA	ACRES
AREA DISTURBED	0.65	ACRES
AREA TO BE ROOFED OR PAVED		0.62 ACRES
AREA TO BE VEGETATIVELY STABILIZED		0.03 ACRES
TOTAL CUT	2,500	CU. YDS.
TOTAL FILL	2,500	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	NA	
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF THE DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE (3) PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- CONTRACTOR SHALL PLACE EXCAVATED MATERIALS ON UPHILL SIDE OF TRENCH AND PLACE SILT FENCE ON DOWNHILL SIDE OF TRENCH.

NOTE: SEDIMENT CONTROL TO BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARDS AND SPECIFICATIONS (VOL. IV) OF THE HOWARD COUNTY DESIGN MANUAL AND THIS PLAN.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- LAYOUT ALIGNMENT AT SITE. (1 DAY)
- INSTALL SEDIMENT CONTROL DEVICE (SILT FENCE) ALONG THE EDGE OF ROAD ON THE DOWN-SLOPE SIDE OF CONSTRUCTION. (15 DAYS)
- EXCAVATE TRENCH TO SUBGRADE SPECIFIED ON THE PROFILE, INSTALL WATER MAIN, BACK-FILL TRENCH, RESURFACE IN KIND AND CHIP SEAL SURFACE PER SPECIFICATION. (15 DAYS) (TRENCH IS TO BE BACKFILLED AND STABILIZED ON SAME DAY)
- CLEAN UP CONSTRUCTION SITE. (2 DAYS)
- REMOVE SEDIMENT CONTROL DEVICES AFTER PERMISSION IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR. (1 DAY)

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED** - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT.).
- ACCEPTABLE** - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

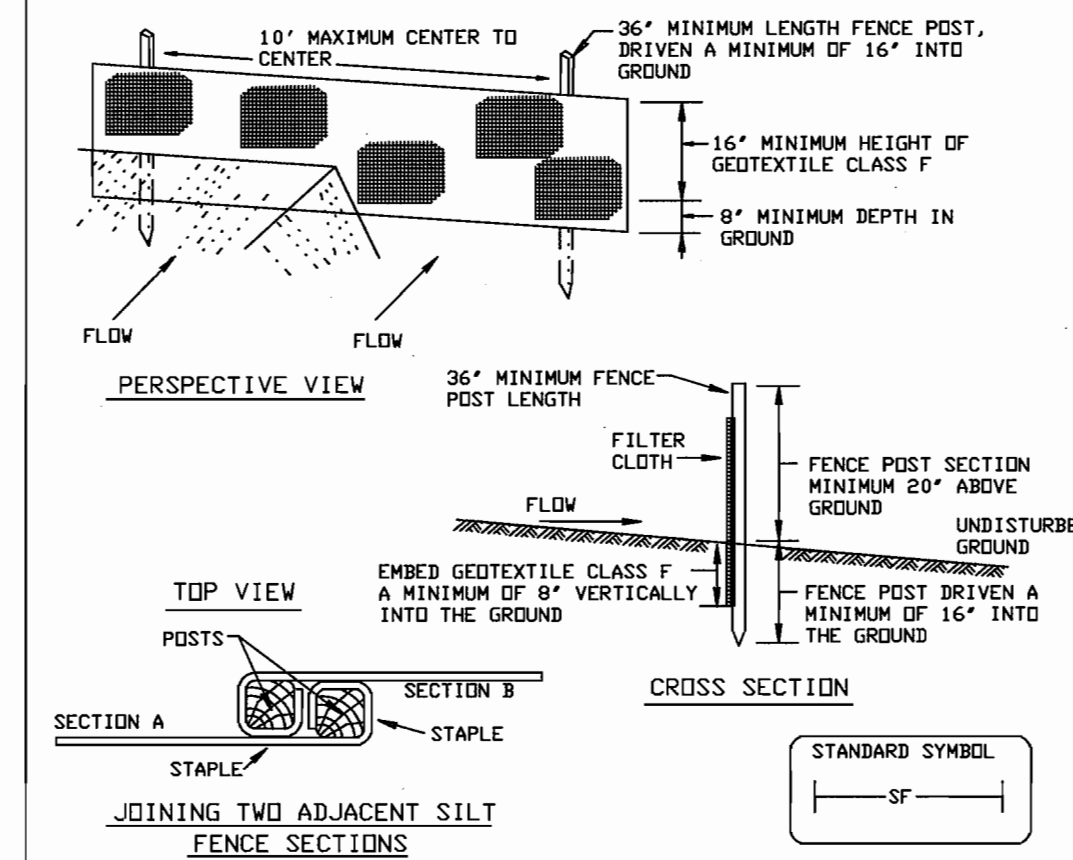
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: - APPLY 60 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT.).
SEEDING - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

DETAIL 22 - SILT FENCE



Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - 15 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPEMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Robert J. Sporn 6/17/96
 BUREAU OF ENGINEERING
 DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
J. H. Warfield 6/17/96
 U.S. SOIL CONSERVATION SERVICE

ENGINEER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPEMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

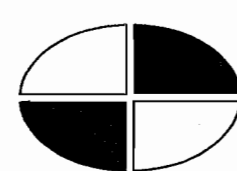
Timothy W. Wolfe 6/16/96
 SPOTTS, STEVENS & MCCOY, INC.
 555 FARMGROVE AVENUE, SUITE 230
 TOWSON, MARYLAND 21286

THIS DEVELOPEMENT PLAN IS APPROVED FOR THE SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
John R. Robertson 6/19/96
 APPROVED
 HOWARD COUNTY S.C.D.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James A. Cleo 6/18/96
 DIRECTOR OF PUBLIC WORKS
 CHIEF, BUREAU OF UTILITIES

Robert J. Sporn 6/17/96
 CHIEF, BUREAU OF ENGINEERING
 CHIEF, WATER AND SEWER DESIGN DIVISION



SSM
 SPOTTS, STEVENS and MCCOY, INC.
 ENGINEERS • SURVEYORS • SCIENTISTS
 555 FARMGROVE AVENUE, STE. 230
 TOWSON, MARYLAND, 21286-5497
 (410)494-0500 FAX (410)296-3580



DES: FCL				
DRN: FCL				
CHK: TWW				
DATE: JUNE, '96	BY	NO.	REVISION	DATE

12-INCH WATER MAIN
 NOTES
 GORMAN ROAD

600' SCALE MAP NO. _____ BLOCK NO. _____

GORMAN ROAD SCHOOL WATER
 CAPITAL PROJECT No. S-6204
 CONTRACT No. 44-3515
 ELECTION DISTRICT GUILFORD No. 6
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 2
 FILE: B0194.DWG

C.P. 75-6204
 GORMAN ROAD
 SCH. H20MM
 7/6
 2715